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SPACE OPERATIONS CONTROL CENTER  
GODDARD SPACE FLIGHT CENTER  
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
GREENBELT, MARYLAND

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Volume 1, No. 5

SATELLITE SITUATION REPORT,

April 11, 1961 5p

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The following report reflects data computed and compiled by  
Goddard Space Flight Center, NORAD, and the Smithsonian Astrophysical  
Observatory as of 1200Z on April 11, 1961.

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HARRY E. CARPENTER, JR.  
Head, Operations Control Branch

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE</u>	<u>PERIGEE</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1958 ALPHA	EXPLORER I	US	1 FEB 58	106.6	33.21	1119	220	
1958 BETA 1	ROCKET BODY	US	17 MAR 58	138.3	34.25	2688	406	
1958 BETA 2	VANGUARD I	US	17 MAR 58	133.9	34.24	2448	409	108.025
1959 ALPHA 1	VANGUARD II	US	17 FEB 59	125.4	32.88	2052	343	
1959 ALPHA 2	ROCKET BODY	US	17 FEB 59	129.6	32.98	2278	348	
1959 DELTA	EXPLORER VI	US	7 AUG 59	POSITION UNCERTAIN				
1959 ETA	VANGUARD III	US	18 SEP 59	129.8	33.34	2313	322	
1959 IOTA 1	EXPLORER VII	US	13 OCT 59	101.1	50.31	670	344	19.9910
1959 IOTA 2	ROCKET BODY	US	13 OCT 59	101.0	50.30	662	342	
1960 ALPHA*	PIONEER V	US	11 MAR 60	311.6D	3.35	.9931AU	.8061AU	
1960 BETA 1	ROCKET BODY	US	1 APR 60	99.1	48.41	463	429	
1960 BETA 2	TIROS I	US	1 APR 60	99.1	48.39	467	429	107.997
1960 GAMMA 1	ROCKET BODY	US	13 APR 60	92.0	51.25	288	179	
1960 GAMMA 2	TRANSIT 1B	US	13 APR 60	95.0	51.28	422	229	
1960 GAMMA 4	NONE	US	13 APR 60	96.8	51.20	441	319	
1960 EPSILON 1	SPUTNIK IV	USSR	15 MAY 60	92.8	65.02	336	175	
1960 EPSILON 3	NONE	USSR	15 MAY 60	93.5	64.89	379	172	
1960 EPSILON 4	NONE	USSR	15 MAY 60	92.8	64.89	336	176	
1960 ZETA 1	MIDAS II	US	24 MAY 60	94.3	33.00	315	297	162;216
1960 ETA 1	TRANSIT 2A	US	22 JUN 60	101.6	66.77	650	389	108.0023
1960 ETA 2	GREB	US	22 JUN 60	101.6	66.77	657	381	
1960 ETA 3	ROCKET BODY	US	22 JUN 60	101.4	66.77	643	383	
1960 IOTA 1	ECHO I	US	12 AUG 60	117.0	47.26	1225	703	
1960 IOTA 2	ROCKET BODY	US	12 AUG 60	118.0	47.22	1049	932	
1960 IOTA 3	METAL OBJECT	US	12 AUG 60	118.2	47.20	1050	941	
1960 IOTA 4	METAL OBJECT	US	12 AUG 60	118.2	47.37	1044	950	
1960 IOTA 5	METAL OBJECT	US	12 AUG 60	118.3	47.20	1060	940	
1960 NU 1	COURIER 1B	US	4 OCT 60	106.8	28.30	750	604	107.9709

OBJECTS IN ORBIT (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE</u>	<u>PERIGEE</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1960 NU 2	ROCKET BODY	US	4 OCT 60	106.4	28.30	749	578	
1960 XI 1	EXPLORER VIII	US	3 NOV 60	112.5	49.98	1412	262	
1960 XI 2	ROCKET BODY	US	3 NOV 60	112.4	49.98	1409	259	
1960 XI 3	NONE	US	3 NOV 60					
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.57	462	378	108.0;108.03
1960 PI 2	ROCKET BODY	US	23 NOV 60	98.1	48.57	457	378	
1960 PI 4	NONE	US	23 NOV 60					
1961 ALPHA 1	SAMOS II	US	31 JAN 61	95.0	97.40	343	295	
1961 ALPHA 2	METAL OBJECT	US	31 JAN 61	94.9	97.40	343	295	
1961 GAMMA 1*	VENUS PROBE	USSR	12 FEB 61	300D	0.3	1.019AU	0.7133AU	
1961 DELTA 1	EXPLORER IX	US	16 FEB 61	118.3	38.86	1588	413	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.5	38.63	1616	395	
1961 DELTA 3	NONE	US	16 FEB 61	118.1	38.87	1590	400	
1961 DELTA 4	NONE	US	16 FEB 61					
1961 EPSILON 1	DISCOVERER XX	US	17 FEB 61	95.0	30.91	466	176	
1961 EPSILON 3	NONE	US	17 FEB 61	88.8	80.91	131	131	
1961 EPSILON 4	NONE	US	17 FEB 61	96.0	80.91	457	246	
1961 ZETA	DISCOVERER XXI	US	18 FEB 61	97.1	80.74	617	151	
1961 KAPPA	EXPLORER X	US	25 MAR 61	5012	33.00	112,500	110	
1961 LANEDA 1	DISCOVERER XXIII	US	8 APR 61	94.1	82.31	437	183	
1961 LANEDA 2	CAPSULE	US	8 APR 61					

\* APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

PLEASE ADD THE FOLLOWING TO THE DECAYED OBJECTS LIST

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1960 SIGMA	DISCOVERER XVIII	US	7 DEC 60	2 APR 61
1961 EPSILON 2	NONE	US	17 FEB 61	30 MAR-2 APR 61
1961 ETA	TRANSIT 3B & LOFTI	US	22 FEB 61	30 MAR 61

THE LUNAR AND SPACE PROBE SECTION REMAINS UNCHANGED

APOGEE-PERIGEE PLOT

Chart I of this report shows the change in the Apogee and Perigee of the Echo I Satellite. The column on the left side of the chart indicates the height of the element in miles above the surface of the earth. Each division moving across the chart represents two days referenced to the launch date, April 12, 1960.

20 X 20 PER INCH

